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Avrigeanu
Marilena

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Evaluation Sheet

General Information About this Project

Project Registration Code

PN-III-P4-ID-PCE-2016-0108

Project Title

(English)

Direct interaction effects on the nuclear data evaluation for deuteron-induced reactions

Project Title

(Romanian)

Efectele interactiilor directe asupra evaluarii datelor nucleare pentru reactii induse de deuteroni

Project Acronym

DIEDIR

Main Domain

Domain: *PE. PHYSICAL SCIENCES AND ENGINEERING*

Subdomain: *PE2. Fundamental Constituents of Matter: Particle, nuclear, plasma, atomic, molecular, gas, and optical physics*

Research Area: *PE2_3. Nuclear physics*

Secondary Domain

Domain: *PE. PHYSICAL SCIENCES AND ENGINEERING*

Subdomain: *PE6. Computer Science and Informatics: Informatics and information systems, computer science, scientific computing, intelligent systems*

Research Area: *PE6_10. Web and information systems, database systems, information retrieval and digital libraries, data fusion*

Keywords

- Deuterons
- Nuclear reactions
- Reaction mechanisms
- Breakup
- Direct Reactions

Project leader

Marilena Avrigeanu

Project Duration

(months)

30

Phase I - Evaluation Sheet

I.1 Is the presented theme sufficiently up to date and can it be developed by a worthy research project?

<input type="checkbox"/> No	<input type="checkbox"/> No	<input checked="" type="checkbox"/> No
<input checked="" type="checkbox"/> Yes	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> Yes

<p>The project leader describes in length the state of the art and the importance of the research topic, but the presentation of the proposed investigations is not clearly emphasised. For example: "this proposal aims, in addition to the results of the above-mentioned UEFISCDI project coordinated by the present applicant, at further improvements of the theoretical description of deuteron interactions with nuclei that could be validated only by suitable description of experimental data". Also "we plan to continue the series of recent studies..." The planned research, methodology etc. remain quite vague. In spite of this, I believe a convincing research proposal can be elaborated for Phase II.</p>	<p>+ The short introduction to the state of the art in the field is appropriately presented. + The objectives of the research are specified and clear.</p>	<p>This is not clear, the author of the proposal makes the point that deuteron data libraries need to be improved, but it is not explained clearly how she wants to reach this goal. It would be helpful to have more details.</p>
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DISCUSSIONS ABOUT EVALUATION

Evaluator 1 at 2016/10/28, 18:11:

¹ *I agree that the proposed research is quite vaguely described, if at all. Nevertheless this can be remedied in Phase II. Should the proposal of Phase II be still this vague, it would be certainly rejected.*

Evaluator 3 at 2016/10/28, 16:09:

² *From my point of view, the proposal is very vague and rather weak in comparison to others I have evaluated for this round.*

I.2 Has the project leader the necessary expertize, reflected by his/hers publications, in order to implement successfully the proposed project?

<input type="checkbox"/> No	<input type="checkbox"/> No	<input type="checkbox"/> No
<input checked="" type="checkbox"/> Yes	<input checked="" type="checkbox"/> Yes	<input checked="" type="checkbox"/> Yes

<p>The project leader has accumulated a long and relevant professional experience in the field. Her publication record is moderate towards good by international standards. A better embedding in the international scientific research would have been preferable.</p>	<p>+ The experienced researcher has the right abilities to successfully address the objectives of the project (scientific productivity and experimental skills).</p>	<p>The project leader has a lot of experience and as the work seems to be a simple continuation of previous works she has been doing, yes she should be able to complete this task which should lead to papers published in international journals.</p>
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DISCUSSIONS ABOUT EVALUATION

~No messages posted~

I.3 Do the presented publications indicate an average or above average visibility in the international community?

<input type="checkbox"/> No	<input type="checkbox"/> No	<input checked="" type="checkbox"/> No
<input checked="" type="checkbox"/> Yes	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> Yes

Another proposal has been submitted in the same round in a similar topic by V Avrigeanu, who is coauthor in 4 of the 5 enlisted publications published in Physical Review C. That application also contains only joint publications. I checked however that the given publications are not identical and they also satisfy the given requirement for average or above average visibility.

+ The experience of the researcher in the proposal's scientific field is excellent with over 64 publications in peer-reviewed in top journals (h-index of 19), and a high number of citations (>1300).

This is not clear, not all of her papers are published in leading international journals. She does not seem to have much connection at the international level. The impact of her papers is limited as demonstrated by a rather low h factor for such a senior scientist.

DISCUSSIONS ABOUT EVALUATION

Evaluator 3 at 2016/10/28, 16:08:

¹ *These stats are not very impressive, certainly not in comparisons to other projects I have seen. There is no obvious international connection.*

Evaluator's decision: Yes

Evaluator's decision: Yes

Evaluator's decision: No

Adequate quality to move to Phase II: YES